

Fecha de entrega 24 de
mayo del 2022.



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Maestro: Jorge Enrique Albores

Materia: Matemáticas Financieras

ejercicios

3 cuatrimestre.

Lic. En contaduría pública y finanzas.

Luis Antonio Alfaro Pérez

Ejercicios ①

24/05/22.

①

$$F = P(1+i)^n \text{ Valor futuro}$$

\$ 50,000

$$P = \frac{F}{(1+i)^n} \text{ Valor presente}$$

$i = 2\%$

$$F = 50,000 (1+0.02)^7 = 57,434.28.$$



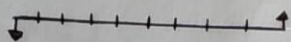
②

$$P = 10,000$$

$$n = 8$$

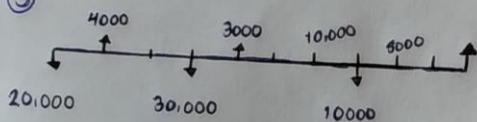
$$i = 3.2\%$$

$P?$



$$P = 10,000 (1+0.032)^8 = 12,865.82.$$

③



$$FT = FT \text{ ingresos} - FT \text{ egresos.}$$

$$F_1 = 20,000 (1+0.025)^0 = 25,601.69.$$

$$F_2 = 30,000 (1+0.025)^2 = 35,660.57 \rightarrow 72,031.16$$

$$F_3 = 10,000 (1+0.025)^3 = 10,768.90$$

$$F_4 = 4000 (1+0.025)^4 = 4995.45$$

$$F_5 = 3000 (1+0.025)^6 = 3,479.08$$

$$F_6 = 10,000 (1+0.025)^4 = 11,038.12$$

$$\rightarrow 24,765.77.$$

$$F_7 = 5000 (1+0.025)^2 = 5,253.12.$$

$$\text{Total} = 47,265.39.$$

Ejercicios

Luis Antonio Arfaro Pérez.

24/05/22.

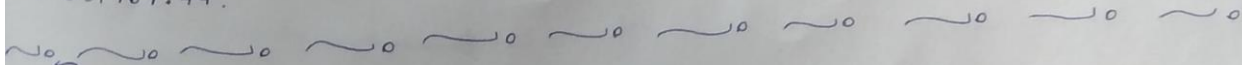
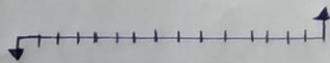
(4)

$$P = 50,000$$

$$n = 15$$

$$i = 3.5\%$$

$$= 83,767.44.$$



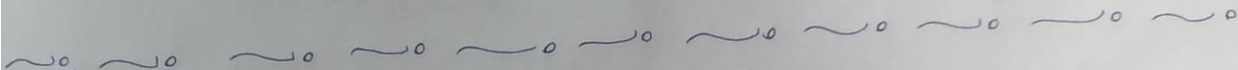
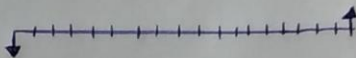
(5)

$$P = 25,000$$

$$n = 18$$

$$i = 4\%$$

$$= 50,646.41$$



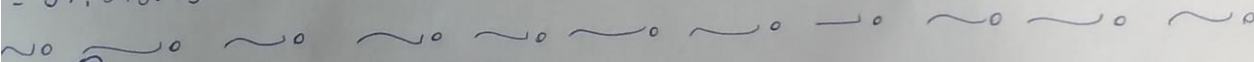
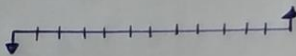
(6)

$$P = 35,000$$

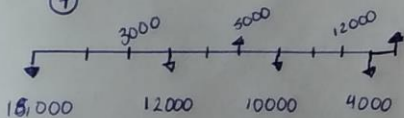
$$n = 12$$

$$i = 4.2\%$$

$$= 57,343.43$$



(7)



$$F_1 = 18,000 (1 + 0.028)^{10} = 23,724.85$$

$$F_2 = 12,000 (1 + 0.028)^7 = 14,559.05 \rightarrow 53,563.82$$

$$F_3 = 10,000 (1 + 0.028)^4 = 11,167.92$$

$$F_4 = 4,000 (1 + 0.028)^1 = 4,112.$$

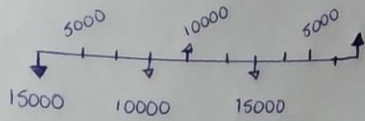
$$F_1 = 3,000 (1 + 0.028)^8 = 3,741.67$$

$$F_2 = 5,000 (1 + 0.028)^5 = 5,740.31 \rightarrow 22,163.38.$$

$$F_3 = 12,000 (1 + 0.028)^2 = 12,681.40$$

$$\text{Total} = 31,400.44$$

8



$$F_1 = 5000 (1 + 0.05)^7 = 7756.64$$

$$F_2 = 10000 (1 + 0.05)^6 = 13,400.95$$

$$F_3 = 5000 (1 + 0.05)^5 = 5,512.5$$

→ 26,670.09.

$$F_1 = 15,000 (1 + 0.05)^0 = 24,433.41$$

$$F_2 = 10,000 (1 + 0.05)^2 = 14,071.00 \rightarrow 56,537.$$

$$F_3 = 15,000 (1 + 0.05)^4 = 18,232.59$$

TOTAL DE = 30,066.91.

Final del año	Intereses	Total	Total a pagar.
0			\$ 21,000
1	\$ 840	21,840	
2	\$ 873.6	22,713.6	\$ 22,713.6
3	\$ 908.54	23,622.14	\$ 23,622.14
4	\$ 944.88	24,567.02	\$ 24,567.02
5	\$ 982.68	25,549.68	\$ 25,549.68
6	\$ 1021.98	26,571.68	\$ 26,571.68
7	\$ 1062.86	27,634.54	\$ 27,634.54
			\$ 27,634.54

Final del año	Intereses	Total	Total intereses	Total a pagar
0				
1	\$ 840	\$ 21,840	\$ 840	\$ 21,000
2	\$ 840	\$ 21,840	\$ 21,000
3	\$ 840	\$ 21,840	\$ 21,000
4	\$ 840	\$ 21,840	\$ 21,000
5	\$ 840	\$ 21,840	\$ 21,000
6	\$ 840	\$ 21,840	\$ 21,000
7	\$ 840	\$ 21,840	\$ 26,880	\$ 21,000

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Ejercicios

24/03/22.

Final del año.	Intereses	Total	Total intereses	Total a pagar
0				\$21,000
1	\$ 840	\$ 21,840	\$ 3840	\$ 18,000
2	\$ 720	\$ 18,720	\$ 3720	\$ 15,000
3	\$ 600	\$ 15,600	\$ 3600	\$ 12,000
4	\$ 480	\$ 12,400	\$ 3480	\$ 9,000
5	\$ 360	\$ 9360	\$ 3360	\$ 6000
6	\$ 240	\$ 6240	\$ 3240	\$ 3000
7	\$ 120	\$ 3,120	\$ 3120	\$ 0.00

⑩

Final del año	Intereses	Total		Total a pagar
0				\$18,000
1	\$ 630	\$ 18,630	\$ - - -	\$ 18,630.
2	\$ 652.05	\$ 19,282.05	\$ - - -	\$ 19,282.05
3	\$ 674.87	\$ 19,956.92	\$ - - -	\$ 19,956.92
4	\$ 698.49	\$ 20,665.41	\$ - - -	\$ 20,665.41
5	\$ 772.93	\$ 21,378.34	\$ 8180 -	\$ 21,378.34
6	\$ 748.24	\$ 22,126.58	\$ 22,126.58	\$ 22,126.58

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Ejercicios

ACCUSIDAD ①

24/05/22.

Final del año	Intereses	Total	Total Intereses	Total a pagar
0	- - -			\$18,000
1	\$ 630	\$ 18,630	\$ 630	'
2	\$ 630	\$ 18,630	'	'
3	\$ 630	\$ 18,630	'	'
4	\$ 630	\$ 18,630	'	'
5	\$ 630	\$ 18,630	\$ 3,780	'
6	\$ 630	\$ 18,630	\$ 21,780	\$ 18,000

Final del año	Intereses	Total	Total Intereses	Total a pagar.
0				\$18,000
1	\$ 630	\$ 18,630	\$ 3,630	\$ 15,000
2	\$ 525	\$ 15,525	\$ 3,525	\$ 12,000
3	\$ 420	\$ 12,420	\$ 3,420	\$ 9,000
4	\$ 315	\$ 9,315	\$ 3,315	\$ 6,000
5	\$ 210	\$ 6,210	\$ 3,210	\$ 3,000
6	\$ 105	\$ 3,105	\$ 3,105	\$ 0.00